

Title (en)

METHOD FOR MANUFACTURING RACK AND HOLLOW RACK BAR

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES GESTELLS UND EINER HOHLSTANGE FÜR EIN GESTELL

Title (fr)

PROCÉDÉ DE FABRICATION D'UN RÂTELIER ET D'UNE CRÉMAILLÈRE CREUSE

Publication

EP 3003630 A1 20160413 (EN)

Application

EP 14734564 A 20140530

Priority

- JP 2013117096 A 20130603
- JP 2014065024 W 20140530

Abstract (en)

[origin: WO2014196617A1] Method of fabricating a rack including: supporting a first rack bar 12A having a first toothed part 12a on a shaft of the first rack bar; supporting a second rack bar 12B having a second toothed part 12b on a shaft of the second rack bar such that an axial center line of the second rack bar coincides with an axial center line of the first rack bar; supporting a joint member 15 between the first and second rack bars such that an axial center line of the joint member coincides with the axial center lines of the first and second rack bars; rotating the joint member 15 about the axial center lines of the first and second rack bars relative to the first and second rack bars; and simultaneously bringing an end of the first rack bar and an end of the second rack bar into friction pressure welding with the joint member.

IPC 8 full level

B23K 20/12 (2006.01); **F16H 55/26** (2006.01)

CPC (source: EP US)

B23K 20/12 (2013.01 - EP US); **B23K 20/1205** (2013.01 - US); **B23K 20/129** (2013.01 - US); **B23K 37/0443** (2013.01 - EP US); **F16H 55/26** (2013.01 - EP US); **B23K 2103/04** (2018.07 - EP US)

Citation (search report)

See references of WO 2014196617A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2014196617 A1 20141211; CN 105307810 A 20160203; CN 105307810 B 20190319; EP 3003630 A1 20160413; EP 3003630 B1 20181114; JP 2014234882 A 20141215; JP 6343431 B2 20180613; US 10612642 B2 20200407; US 2016116049 A1 20160428; US 2018223981 A1 20180809

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